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- 1. A tumor antigen peptide that is a partial peptide derived from a cyclophilin, and that is capable of binding to an HLA antigen and being recognized by cytotoxic T lymphocytes, or a derivative thereof having the functionally equivalent properties.
- 2. A tumor antigen peptide that is a partial peptide derived from cyclophilin B, and that is capable of binding to an HLA antigen and being recognized by cytotoxic T lymphocytes, or a derivative thereof having the functionally equivalent properties.
- 3. The tumor antigen peptide of claim 1 or 2 wherein the HLA antigen is HLA-A24 or HLA-A2/97 a derivative thereof having the functionally equivalent properties.
- 4. The tumor antigen peptide of claim 3, that is selected from sequences comprising all or part of an amino acid sequence shown in any one of SEQ ID NOs: 1-36 or SEQ ID NOs: 41-43, or a derivative thereof having the functionally equivalent properties.
- 5. The tumor antigen peptide of claim 4, that is selected from sequences comprising all or part of the amino acid sequence shown in SEO ID NO: 1 or 2, or a derivative thereof having the functionally equivalent properties.
- 6. The tumor antigen peptide defivative of claim 4, that is selected from sequences comprising all or part of an amino acid sequence in which the amino acid/residue at position 2 and/or the Cterminus in the amino acid sequence shown in any one of SEQ ID NOs: 1-36 is substituted by another amino acid residue.

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7. The tumor antigen peptide derivative of claim 6, that is selected from sequences comprising all or part of an amino acid sequence in which the amino acid residue at position 2 and/or the Cterminus in the amino acid sequence shown in SEQ ID NO: 1 or 2 is substituted by another amino acid residue.

- 8. The tumor antigen peptide derivative of claim 6, that is selected from sequences comprising all or part of an amino acid sequence in which the amino acid residue at position 2 in the amino acid sequence shown in any one of SEQ ID NOs: 1-11 is substituted by tyrosine, phenylalanine, methionine, or tryptophan, and/or the amino acid residue at the C-terminus is substituted by phenylalanine, leucine, isoleucine, tryptophan, or methionine.
- 9. The tumor antigen peptide derivative of claim 6, that is selected from sequences comprising all or part of an amino acid sequence in which the amino acid residue at position 2 in the amino acid sequence shown in any one of SEO ID NOs: 12-36 is substituted by leucine, methionine, valine, isoleucine, or glutamine, and/or the amino acid residue at the C-terminus is substituted by valine or leucine.
- 10. The tumor antigen peptide derivative of claim 8, that is selected from sequences comprising all or part of the amino acid sequence shown in SEQ ID NO: 37 or 38.
- 11. The tumor antigen peptide derivative of claim 10, that is selected from sequences comprising all or part of the amino acid sequence shown in SEQ ID NO: 39 or 40.
  - 12. A pharmaceutical composition for treating or preventing

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tumors, that comprises as an active ingredient at least one of substances selected from tumor antigen peptides and derivatives thereof according to any one of claims 1 to 11.

13. A pharmaceutical composition for treating or preventing tumors, that comprises as an active ingredient a cyclophilin, a partial polypeptide of the cyclophilin that comprises a tumor antigen peptide portion capable of binding to an HLA antigen and being recognized by cytotoxic T lymphocytes, or a gene encoding the cyclophilin or the partial polypeptide thereof.

14. A pharmaceutical composition for treating or preventing tumors, that comprises as an active ingredient cyclophilin B, a partial polypeptide of cyclophilin B that comprises a tumor antigen peptide portion capable of binding to an HLA antigen and being recognized by cytotoxic T lymphocytes, or a gene encoding the cyclophilin B or the partial polypeptide thereof.

15. An antibody that specifically hinds to the tumor antigen claim 1 5/2 peptide or the derivative thereof according to any one of claims 1-11.

16. An antigen-presenting cell wherein a complex between an HLA antigen and the tumor antigen peptide or the derivative thereof according to any one of claims 1-11 is presented on the surface of a cell having antigen-presenting ability that is isolated from a tumor patient.

17. An antigen-presenting cell on which a complex between an HLA antigen and a tumor antigen peptide derived from a cyclophilin is presented, said antigen-presenting cell being prepared by allowing a cell having antigen-presenting ability isolated from a tumor patient to

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be incorporated with the cyclophilin, a partial polypeptide thereof that comprises the tumor antigen peptide portion capable of binding to the HLA antigen and being recognized by cytotoxic T lymphocytes, or a gene encoding the cyclophilin or the partial polypeptide thereof.

- 18. An antigen-presenting cell on which a complex between an HLA antigen and a tumor antigen peptide derived from cyclophilin B is presented, said antigen-presenting cell being prepared by allowing a cell having antigen-presenting ability isolated from a tumor patient to be incorporated with cyclophilin B, a partial polypeptide of cyclophilin B that comprises the tumor antigen peptide portion capable of binding to the HLA antigen and being recognized by cytotoxic T lymphocytes, or a gene encoding the cyclophilin B or the partial polypeptide thereof;
- 19. A pharmaceutical composition for treating tumors, that comprises as an active ingredient the antigen-presenting cell according to any one of claims 16-18.
- 20. A cytotoxic T lymphocyte that specifically recognizes a complex between an HLA antigen and a tumor antigen peptide or derivative thereof according to any one of claims 1-11.
- 21. A cytotoxic T lymphocyte that specifically recognizes a complex between an HLA antigen and a tumor antigen peptide or derivative thereof, that is presented on an antigen-presenting cell according to any one of claims 16-18.
- 22. A pharmaceutical composition for treating tumors, that comprises as an active ingredient the cytotoxic T lymphocyte of claim 20 or 21.
  - 23. A cytotoxic T lymphocyte of which deposit number is FERM

BP-6725.

- 24. A method for identifying tumor antigen proteins or tumor antigen peptides, which comprises using KG-CTL according to claim 23.
- 25. A diagnostic agent for tumors that comprises as an active ingredient a tumor antigen peptide or a derivative thereof according to any one of claims 1-11.